

Bridge Painting: Bernal Avenue Bridge over the Arroyo De Laguna, CIP 13525



Project Number: CIP NO. 13525-FED ID 5101(028)

Location: Bernal Ave over the Arroyo de Laguna

Contractor: Murphy Industrial Coatings – Ryan Garrity (602) 576-2131

City Inspector Contact: Mark Messa (925) 931-5657

Start Date: January 2017

Anticipated Completion: September 2017

Contract Amount: \$1,122,150

The project consists of cleaning and painting all steel surfaces of the existing bridge, bridge guardrail, walkway, walkway handrail, water line and 4-inch gas line casing, including utility straps and supports. Species protection and a contractor-supplied biologist are required to prevent bird nesting within the protected area as specified by Federal law. The contractor will be installing bird netting in February and monitoring until painting begins in June 2016.

The existing paint contains lead and is peeling away from the bridge structure. The paint removal and painting will require the entire bridge to be encapsulated to prevent any existing paint material from entering the arroyo. To encapsulate the work area will require one lane of traffic to be closed to accommodate room for the scaffolding and tenting materials.

An opening down the centerline of the bridge will remain to allow for pedestrians and one lane of traffic to cross the bridge. The single lane of traffic will be controlled by temporary traffic signals allowing alternating directions of travel.

Engineering staff reviewed the assorted traffic control options with the City Traffic Engineer and determined the temporary signal; single lane of traffic is the best option to allow for both directions of travel. However, the peak traffic volumes are such that traffic impacts and delays are anticipated. To lessen the impacts, the traffic restriction will be limited to the summer months while Foothill High School is not in session. The full single lane closure is scheduled from June 5 to August 11, 2017. While the school is out, the peak hour traffic volumes are less and this helps reduce delay. Throughout the construction, the traffic control will be monitored and adjusted as appropriate.

The ten-week single lane closure does not provide adequate time to complete the project within the City standard work hours – Monday thru Friday 8:00 AM to 5:00 PM. As bid, work will be allowed seven days a week, with longer working hours: Monday through Friday – 6:00 AM to 8:00 PM, Saturday – 8:00 AM to 4:00 PM, and Sunday – 10:00 AM to 4:00 PM. There will be no work from July 1 to July 4, 2017. Although the project extends the working hours, loud activities that can impact the nearby residents will be limited to 7:00 AM to 7:00 PM and shall never exceed 86 decibels (food blender) at the property line of each resident. Generators and dehumidification equipment will need to run 24 hours a day but sound dampening enclosures/equipment will be used to keep the noise below 70 decibels (vacuum cleaner).